

Test # _____

Public Health 3202/1515

Study Guide

Name (print) _____

Student ID # _____

- 1) There is only **one** correct answer for each question.
- 2) If you erase, please do so completely.
- 3) Spelling errors are **not** detractors.
- 4) **No** questions will be answered during the examination.
- 5) Each student has **1 hour** to complete this examination.
- 6) There are 50 questions on this examination.

Please circle your answers on your examination!

- 1) **Which one of the following statements is **not** correct?
 - a) An injury is some type of physical damage to an individual as the result of coming into contact with a physical or chemical agent at a rate greater than the individual's body can tolerate. y
 - b) An example of unintentional injury is poisonings y
 - c) An example of intentional injury is aggravated assault y
 - d) The Haddon Matrix Model is used in the U.S. to help determine possible interventions and/or preventions of particular injuries. y
 - e) **The most common type of death from injury in a public place is due to falls**
Drowning is the most common PUBLIC ; Falls are leading cause at HOME
- 2) Which one of the following statements is **not** correct?
 - a) Cow's milk is high in protein, calcium, and phosphorus y
 - b) **Stomach cancer is the most often type of cancer acquired from hormones in milk**
bone cancer is most common
 - c) Sodium caseinate is the principle protein in plain cow's milk y
 - d) Fortified milk has vitamins A and D added y
 - e) Infant's immature kidneys are stressed by plain cow's milk y
- 3) **Which one of the following statements is **not** correct?
 - a) An example of an intentional injury is child abuse y
 - b) Males are more prone to violent behavior than females y
 - c) **Most states use a blood alcohol concentration of .10 g/dl as impaired for driving**
 - d) **American blacks have a higher rate of suicide and a lower risk of homicide than American whites. This crazy question was on the last test. Both are incorrect**
 - e) Having chronic medical conditions can increase the risk of injuries y
- 4) **Which one of the following types of energy injuries is the most common cause of injury?
 - a) Radiation
 - b) Thermal
 - c) Electrical
 - d) **Kinetic think car accidents**
 - e) Chemical
- 5) _____ = milk is heated to 143 degrees F for 30 minutes and then cooled rapidly?
 - a) Flash method 161 degrees 15 seconds
 - b) **Holding method**
 - c) Ultra high temperature 193 degrees F for 3/4 second rapidly cooled to 45 or 50 degrees F.
This type of milk can be stored forever.
 - d) Gamma radiation salmonella treatment

- 6) _____ = is where an enzyme in milk is destroyed at the same temperature as effectively pasteurized milk? To meet safety standards, 96% of this enzyme must be destroyed.
- a) Standard plate count # of bacteria in sample; <30,000 per ml is safe
 - b) **Phosphatase test**
 - c) Coliform count most accurate method for determining ; fecal contaminated milk
 - d) Sterile test
- 7) Which one of the following statements is not correct?
- a) Condensed milk has a large amount of sugar added during processing y
 - b) Formula-fed infants consume a large amount of tap water y
 - c) **The standards for spraying pesticides for the grain eaten by livestock is greater than the standards for the grain eaten by humans Standards are lower for livestock**
 - d) Allergic reactions can occur from homogenization of milk due to protein getting into the blood from this process y
 - e) A danger from antibiotics in milk is it may lead to secondary bacterial or yeast infections y
- 8) Milk left out too long becomes _____ and tastes bitter?
- a) Acidic
 - b) **Alkaline**
- 9) Which one of the following statements is **not** correct?
- a) Lack of clean water is the single greatest threat to mankind today y
 - b) The average human uses 75 gallons of water per day y
 - c) Fluoride is known to accumulate in the human body and at high levels can become toxic y
 - d) **Mineral water is water treated by any of a number of chemical or physical processes that remove dissolved solids Mineral water is actually obtained from protected underground stores; think Fiji**
 - e) Agriculture is the largest source of sewage today in the U.S. y
- 10) Disability is described as the loss of function of the human body?
- a) True
 - b) **False-Disability is how impairment affects individuals ability to function in society**
- 11) Which one of the following agencies jurisdiction covers all non-governmental workplaces. Its goal is to assure a safe and healthful workplace for all Americans?
- a) **OSHA**
 - b) EPA
 - c) CDC
 - d) RDA

- 12) A patient demonstrates with the following: altered mental status, irritable, seizures, delirious, dizzy, and loss of consciousness. What is the name of this condition?
- a) Heat exhaustion
 - b) Heat stroke**
 - c) Heat prostration
 - d) Heat fatigue
- 13) A patient demonstrates with the following: fever, chills, myalgia, headaches, and has an occupation as a machine operator. What is the name of this condition?
- a) Pontiac Fever**
 - b) Byssinosis
 - c) Berylliosis
 - d) Lead Inhalation

Matching #1

- 14) *Ixodes scapularis* tick **Lyme Disease**
- 15) Gram positive spore forming aerobic rod **Anthrax**
- 16) Acute regional lymphadenitis affecting dog and cat handlers **Cat Scratch Fever**
- 17) San Joaquin Valley Fever **Coccidioidimycosis**
- 18) *Coxiella burnetii* **Q Fever**
- 19) Arbovirus **Colorado Tick Fever**
- c. Rocky Mountain Spotted Fever
 - d. Histoplasmosis
 - e. Q Fever
 - ab. Coccidioidimycosis
 - ac. Lyme Disease
 - ad. New Castle Disease
 - ae. Colorado Tick fever

- 20) A patient demonstrates with the following: a grain mill worker who has been handling damp hay and has inhaled spores which produced a fungus ball (mycetoma) in his lungs. What is the name of this condition?
- a) Histoplasmosis
b) Aspergillosis
c) Coccidioidomycosis
d) Psittacosis
- 21) _____ are toxins that are released by the organism while it is alive?
- a) Endotoxins
b) Exotoxin
c) Enterotoxins
d) Neurotoxins
- 22) Which one of the following statements is **not** correct?
- a) The use of Gamma radiation is being introduced as a method of *Salmonella* eradication **Y**
b) Ptomaine poisoning is usually due to nuts, fruits or vegetables due to Meat
c) Septicemia is the presence of a multiplying organism in the blood **Y**
d) Food intoxication is when a human ingests the by products of an organism **y**
e) Hepatitis and typhoid fever are found in shellfish **Y**

Matching #2

- | | |
|--|------------------|
| 23) Found in meat, pork and fresh water fish and regrows from segments TAPE WORM | a. Ascaris Worm |
| | b. Tape Worm |
| 24) Causes inflammation of the intestines and gastritis SALMONELLA | c. Hook Worm |
| | d. Typhoid Fever |
| 25) Grows in the intestines and can cause occlusion and can result in appendicitis ASCARIS WORM | e. Salmonella |
| | ab. Pin Worm |
| 26) A rod shaped gram + organism and produces a nerve toxin that can paralyze a humans respiratory muscles BOTULISM | |

- 27) Approximately 1/2 billion individuals have this worm which sucks blood from the intestinal wall

HOOKWORM

- 28) Most common type of food poisoning *with the by products from the organism being the problem.*
Meat is a good environment for its growth. **Staphylococcus**

- 29) Children ingest the organism by putting their hands in their mouth. At night female worm lays eggs in the rectal region of host. aka Enterobiasis. **PIN WORMS**

- 30) Which one of the following statements is **not** correct in regards to the classification of soft water?

- a) Has a high sodium concentration **y**
- b) **Has a high calcium and magnesium concentration**
- c) Makes more bubbles with less soap **y**
- d) Found in most U.S. cities **y**
- e) Associated with increased rates of heart disease and hypertension **y**

- 31) Which one of the following statements is **not** correct?

- a) **Weston Price conducted worldwide studies which found that people who ate refined sugars and processed foods were free of dental decay and pelvic abnormalities Standard American Diet lots of refined sugar, lots of cavities**
- b) Dr. Hurd's results showed that dental decay fell rapidly with the addition of 1ppm of fluoride to the water
- c) Aquifers are underground rock formations containing water that can be drawn to the surface for use
- d) The size of a septic tank for a family is 500-700 gallons
- e) Radioactivity can be found in minute amounts in all drinking water

- 32) Which one of the following statements is **not** correct?

- a) Chlorination of water has been related to high blood pressure and neurological problems **y**
- b) Bromoform is a known carcinogen which is found in 1/3 of treated public drinking water
- c) Dumping non-biodegradable items into a septic tank will result in the tank filling up because these items cannot breakdown **y**
- d) Minimum distance from a water source to the septic tank and absorption field is 100 feet **y**
- e) **The effectiveness of a carbon filter increases with time Decreases with time**

- 33) Which one of the following statements is **not** correct?
- a) All water has been distilled at one time **y**
 - b) Drinking water from plastic containers is not healthy **y**
 - c) Faucet filters can breed bacteria **y**
 - d) **Most bottling water plants disinfect their products with chlorine plants use ozone**
 - e) Alexander Graham Bell was the first to talk about home distillation **y**
- 34) Which one of the following statements is **not** correct?
- a) Asbestosis on x-rays demonstrates as extensive fibrosis and linear diffuse infiltrates in a honeycomb or ground glass appearance. **y**
 - b) Sick Building Syndrome can be characterized by nausea **y**
 - c) Ingestion of glycols can demonstrate with CNS depression **y**
 - d) **Hydrogen cyanide has a high affinity for hemoglobin which is about 240 times greater than that of oxygen Cyanide ions inhibit enzymes of respiratory system**
 - e) Coal Worker's Pneumoconiosis demonstrates as nodular lung opacities on chest x-rays **y**
- 35) **The National Safety Council gathers and compiles data from many sources to produce and conduct injury prevention programs.
- a) **True**
 - b) **False**
- 36) Which one of the following statements is **not** correct?
- a) BOD refers to the oxygen required at any time to satisfy the oxygen requirement for the decomposition of sewage **y**
 - b) Lack of clean water is the single greatest threat to mankind today **y**
 - c) Sewage is 98%-99% water **y**
 - d) **The thalamus initiates impulses that stimulate drinking behavior Hypothalamus**
 - e) A septic tank employs anaerobic bacteria to breakdown waste products **y**
- 37) **Which one of the following statements is **not** correct?
- a) **Musculoskeletal injuries of the cervical spine are the most common type of occupational injury: low back injuries are the most common**
 - b) Falls are the most common type of home injury death. **y**
 - c) The most common type of death from injury in a public place is drowning in a natural body of water **y**
 - d) Suffocation is the leading cause of injury mortality to children less than one year of age **y**
 - e) A passive injury prevention strategy requires no individual action and generally are the most effective. **y**

- 38) Which one of the following statements is **not** correct?
- a) Radioactivity can contaminate milk **y**
 - b) Pesticides can contaminate milk **y**
 - c) Cows are given BGH hormones for greater milk output **y**
 - d) Antibiotics can stimulate the growth of a cow **y**
 - e) **There does not appear to be any danger for humans consuming milk containing antibiotics** **huge list of problems and dangers**
- 39) Which one of the following items is **not** a requirement for a disease causing bacteria?
- a) Warmth
 - b) Moisture
 - c) Nutrients
 - d) **Motility**
- 40) Which one of the following statements is **not** correct?
- a) **Bacteremia is the presence of a multiplying organism in the blood** **Septicemia is the presence of a multiplying organism in blood**
 - b) *Staphylococcus aureus* is the 2nd most common type of food poisoning **y**
 - c) Botulism is anerobic and lives mostly in soil **y**
 - d) Salmonella has long term affects can be arthritis and endocarditis **y**
 - e) Shigellosis is spread via the fecal-oral route **y**
- 41) Which one of the following statements is **not** correct?
- a) Cholera is a disease spread through the water supply
 - b) Human blood mineral content is almost identical to the ocean water mineral content
 - c) Tonic water is legally called a soft drink
 - d) **Psittacosis is usually found in winter months resulting from contact of infected rabbits** **caused by bird: feather dust, dung, and bites**
 - e) Rocky Mountain Spotted Fever is more prevalent in the southeast and southwest **y**
- 42) Lyme Disease is characterized by headaches with: a stiff neck, splenomegaly, lymphadenopathy and a red macule?
- a) **True**
 - b) False

Matching #3

- 43) Looks good, tastes good and is free from harmful substances = **Good Clean Water**
- 44) Refers to water with poisonous materials in it. It may look safe to drink, but may be dangerous. = **Contaminated Water**
- 45) Looks good, tastes good and is safe short and long term. = **Potable Water**
- 46) Does not look good or taste good and does not contain disease causing items. = **Safe Water**
- 47) Has a taste, smell or look which is unpleasant, It may be safe to drink. = **Polluted Water**
- a. Safe water
- b. Potable water
- c. Good clean water
- d. Polluted water
- e. Contaminated water
- 48) Which one of the following statements is **not** correct?
- a) Colorado Tick Fever is characterized by headaches with eye movement and photophobia **y**
- b) Q fever is characterized by interstitial pneumonitis **y**
- c) Cat Scratch Fever organisms can be seen with Warthin-Starry silver **y**
- d) **Anthrax is a gram negative spirochete found in birds It is gram positive;sheep, goats, horses & swine**
- e) Coccidioidimycosis is a fungal infection but can affect all organs of the body **y**
- 49) Which one of the following statements is **not** correct?
- a) Alexander Graham Bell was the first to talk about home distillation **y**
- b) **Radioactivity in drinking water is associated with urinary bladder cancer bone cancer**
- c) Carbon filtration units attached to water faucets can breed bacteria **y**
- d) Quality testing of a sample of water is only good at the time of the testing **y**
- 50) Which one of the following statements is **not** correct?
- a) A predisposing factor of heat exhaustion is physical activity without being acclimatized **y**
- b) A predisposing factor of heat cramps is strenuous activity without training **y**
- c) **Lead ingestion can demonstrate with optic neuropathy or metabolic acidosis**
- d) Coal Worker's Pneumoconiosis is due to chronic exposure to coal dust **y**
- e) Hydrogen sulfide is a by-product of sewage and petroleum. **y**